

PAT-NO: JP404092719A

DOCUMENT-IDENTIFIER: JP 04092719 A

TITLE: SIDE IMPACT BEAM FOR VEHICLE

PUBN-DATE: March 25, 1992

INVENTOR-INFORMATION:

NAME

KURODA, SHIGERU

INT-CL (IPC): B60J005/04

US-CL-CURRENT: 296/146.4, 296/146.6

ABSTRACT:

PURPOSE: To provide energy absorption performance without the occurrence of buckling to a part on which a high load is exerted by mounting a reinforcing material throughout a given length to the intermediate part in a longitudinal direction of a beam body arranged in a door throughout a longitudinal direction.

Best Available Copy

CONSTITUTION: A side impact beam 2 arranged in a door 1 of an automobile throughout the longitudinal direction of a door 1 comprises a beam body 3 and a reinforcing material 4 inserted in the intermediate part in the direction of length of a beam body 3. The beam body 3 is formed of a heat-treated pipe material made of a steel with a specified thickness in the shape of a circle in cross section, and the reinforcing material 4 is also formed of a heat-treated pipe material made of a steel in the shape of a circle in cross section. Tow ends 5 and 11 of the beam body 3 are secured to side frames 7 and 13 of a door through brackets 6 and 12, made of a high tension steel sheet, by weld. The reinforcing material 4 is inserted in the beam body 3 and secured to the beam body 3 by means of a proper securing means.

COPYRIGHT: (C)1992,JPO&Japio

----- KWIC -----

**Document Identifier - DID (1):
JP 04092719 A**

Current US Cross Reference Classification - CCXR (2):
296/146.6

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☒ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.